

What is Claimed is:

1. A bridge station for bridging between at least a domestic phone and at least a mobile phone, comprising:

5 a mobile phone bridging arrangement for connecting with said mobile phone so as to communicate with said mobile phone; and

a call control system, which is adapted for communicatively connecting with said domestic phone, comprising a central processing unit electrically connected to said mobile phone bridging arrangement for communication signal transaction between said call control system and said mobile phone bridging arrangement, and a call diverting unit
10 electrically connected to said central processing unit for diverting an incoming call from said mobile phone to said domestic phone and for diverting an outgoing call from said domestic phone to said mobile phone.

2. The bridge station, as recited in claim 1, wherein said mobile phone bridging arrangement further comprises a signal transmitting device adapted to send and
15 receive said communication signal, wherein said signal transmitting device is adapted for receiving a calling signal as said communication signal from said mobile phone while receiving said incoming call therefrom and for sending a dialing signal as said communication signal from said domestic phone while calling out said outgoing call therefrom.

20 3. The bridge station, as recited in claim 2, wherein said the call diverting unit comprises a transmitting device for transmitting said dialing signal from said domestic phone to said central processing unit, wherein said central processing unit is arranged to convert said dialing signal to a digital form for transmitting to said mobile phone.

25 4. The bridge station, as recited in claim 1, further comprising a recharging arrangement built-in with said mobile phone bridging arrangement for recharging said mobile phone when said mobile phone is electrically connected to said mobile phone bridging arrangement.

5. The bridge station, as recited in claim 2, further comprising a recharging arrangement built-in with said mobile phone bridging arrangement for recharging said mobile phone when said mobile phone is electrically connected to said mobile phone bridging arrangement.

5 6. The bridge station, as recited in claim 3, further comprising a recharging arrangement built-in with said mobile phone bridging arrangement for recharging said mobile phone when said mobile phone is electrically connected to said mobile phone bridging arrangement.

7. The bridge station, as recited in claim 1, further comprising a control panel
10 electrically connected to said central processing unit, wherein said control panel is a parameter inputting device that allows to be input a preset parameter for matching said mobile phones to said corresponding domestic phone through said call control system.

8. The bridge station, as recited in claim 3, further comprising a control panel
15 electrically connected to said central processing unit, wherein said control panel is a parameter inputting device that allows to be input a preset parameter for matching said mobile phones to said corresponding domestic phone through said call control system.

9. The bridge station, as recited in claim 6, further comprising a control panel
20 electrically connected to said central processing unit, wherein said control panel is a parameter inputting device that allows to be input a preset parameter for matching said mobile phones to said corresponding domestic phone through said call control system.

10. The bridge station, as recited in claim 1, wherein said mobile bridging arrangement are built-in with said call control system to form a bridging circuit for externally connecting said mobile phone with said domestic phone through a phone line socket.

25 11. The bridge station, as recited in claim 3, wherein said mobile bridging arrangement are built-in with said call control system to form a bridging circuit for externally connecting said mobile phone with said domestic phone through a phone line socket.

12. The bridge station, as recited in claim 6, wherein said mobile bridging arrangement are built-in with said call control system to form a bridging circuit for externally connecting said mobile phone with said domestic phone through a phone line socket.

5 13. The bridge station, as recited in claim 9, wherein said mobile bridging arrangement are built-in with said call control system to form a bridging circuit for externally connecting said mobile phone with said domestic phone through a phone line socket.

10 14. The bridge station, as recited in claim 1, wherein said mobile bridging arrangement are built-in with said call control system to form a bridging circuit for building in with said mobile phone to connect with said domestic phone through a phone line socket.

15 15. The bridge station, as recited in claim 3, wherein said mobile bridging arrangement are built-in with said call control system to form a bridging circuit for building in with said mobile phone to connect with said domestic phone through a phone line socket.

20 16. The bridge station, as recited in claim 6, wherein said mobile bridging arrangement are built-in with said call control system to form a bridging circuit for building in with said mobile phone to connect with said domestic phone through a phone line socket.

 17. The bridge station, as recited in claim 9, wherein said mobile bridging arrangement are built-in with said call control system to form a bridging circuit for building in with said mobile phone to connect with said domestic phone through a phone line socket.

25 18. A process of bridging between a mobile phone and a domestic phone through a bridge station which comprises a mobile phone bridging arrangement and a call control system electrically connected thereto, comprising the steps of:

(a) communicatively connecting said mobile phone bridging arrangement and said call control system to said mobile phone and said domestic phone respectively so as to communicate said mobile phone with said domestic phone through said bridge station;

5 (b) diverting an incoming call from said mobile phone to said domestic phone; and

(c) diverting an outgoing call from said domestic phone to said mobile phone.

10 19. The process, as recited in claim 18, wherein said call control system comprises a central processing unit electrically connected to said mobile phone bridging arrangement for communication signal transaction between said call control system and said mobile phone bridging arrangement, a call diverting unit electrically connected to said central processing unit for diverting an incoming call from said mobile phone to said domestic phone and for diverting an outgoing call from said domestic phone to said mobile phone.

15 20. The process as recited in claim 19, in step (b), further comprising the steps of:

(b-1) converting a call signal of said incoming call from said mobile phone into said communication signal through said central processing unit; and

(b-2) sending said communication signal to said domestic phone through said call diverting unit.

20 21. The process as recited in claim 19, in step (c), further comprising the steps of:

(c-1) converting a dialing signal of said outgoing call from said domestic phone into said communication signal through said central processing unit; and

25 (c-2) sending said communication signal to said mobile phone through said call diverting unit.

22. The process as recited in claim 20, in step (c), further comprising the steps of:

(c-1) converting a dialing signal of said outgoing call from said domestic phone into said communication signal through said central processing unit; and

5 (c-2) sending said communication signal to said mobile phone through said call diverting unit.

23. The process, as recited in claim 18, further comprising a step of recharging said mobile phone when said mobile phone is electrically connected to said mobile phone bridging arrangement.

10 24. The process, as recited in claim 19, further comprising a step of recharging said mobile phone when said mobile phone is electrically connected to said mobile phone bridging arrangement.

25. The process, as recited in claim 22, further comprising a step of recharging said mobile phone when said mobile phone is electrically connected to said mobile phone
15 bridging arrangement.

26. The process, as recited in claim 19, further comprising a step of inputting a preset parameter through said central processing unit to match said mobile phone with said corresponding domestic phone.

27. The process, as recited in claim 22, further comprising a step of inputting
20 a preset parameter through said central processing unit to match said mobile phone with said corresponding domestic phone.

28. The process, as recited in claim 25, further comprising a step of inputting a preset parameter through said central processing unit to match said mobile phone with said corresponding domestic phone.

25